ARENA
The Disk Array Specialist

SCSI to SATA RAID Subsystem

-- Better performance and reliability

PRODUCT HIGHLIGHT

- SCSI U320 host interface
- Supports up to 12 SATA II drives
- Up to 2GB cache memory
- 2U rackmount, high density design
- No operating downtime and easy maintenance with:
  -- Redundant, hot-swappable components
  -- Modular architecture design
- User-friendly, web browser-based
- RAID management GUI
- Event notification through e-mail or SNMP trap

SA-4540S

Arena launches extended RAID System, SA-4540S, for mid-to-high end storage markets. Latest SATA II disk interface and upgraded CPU speed up data operation rate. The scalable, high performance, and high reliability features make it the ideal choice for DAS, SAN or clustering configurations.

FEATURES AND BENEFITS

Higher Data Protection
Advanced RAID TP function allows up to 3 HDDs failed during system operation time.

Total Satisfaction
Various RAID Levels JBOD, 0, 1, 3, 5, 10, 30, 50, 6, TP or NRAID that fulfills multiple data-redundancy requirements.

Extreme Performance
SCSI U320 host-transferring-speed with upgraded Intel IOP331 CPU which delivers high-performance for heavy-duty business applications.

Increased Firmware Protection
Dual Flash ROM on-board, embedded flash auto-backup function, supports higher system availability during firmware upgrading or single ROM failure.

Smart I/O Path Management
Just simple installation, host-based PathGuard Software enables end-to-end I/O path failover & failback and dynamic I/O load balancing functions to improve operation efficiency.

SCSI

Technical Specifications

Host Channel	
Model No.	SA-4540S
Host Interface	U320 SCSI
Data Transfer Rate	Up to 320Mb/s per port
Host Channel No.	2
External Connector Type	VHDCI
Daisy Chain	SCSI Daisy Chain
Hardware	
Controller	Single
Controller CPU	Intel IOP331
Cache Memory	512-2048 MB DDR
Disk Interface	SATA II
Disk Channel No.	12
Hot Swap Disk Tray	12 x 3.5" swappable trays
Hot Swap Power Supply	350W x2 Redundant
AC Input Voltage	100 to 240V (+/-10%), 47 to 63 Hz
Battery Backup	Yes (optional)
Hot Swap Fan Module	2 x Turbo Fan
RAID Functions	
RAID Levels	JBOD, 0, 1, 3, 5, 6, 10, 30, 50, TP, NRAID
RAID Features	RAID capacity partitioning: up to 16 slices Supported strip sizes (KB): 4, 8, 16, 32, 64, 128, 256, 512 Selective RAID initialization methods including background initialization NVRAM-based transaction log and auto parity resynchronization Online bad block data recovery and reallocation Selective and adaptive read/write optimization policies Online multiple RAID group expansion Online multiple manual or event-triggered disk cloning Online multiple manual or periodic disk scrubbing Disk health monitoring and self tests by S.M.A.R.T. Up to 128 LUNs per host port Configurable sector size of LUNs Array roaming and drive traveling
Advanced Data Reliability Assurance	SMART Cor. Function (DST, DS, DC)
RAID Management	
Front Panel LCD and Buttons	Easy access for configuration and status report
RS-232 Terminal	User friendly interface for configuration and status report
GUI	Embedded Ethernet connection, web browser-based RAID management GUI for configuration and status monitoring
Event Notification	LCD indicator, Build-in buzzer, or e-mail or SNMP trap(*1)

*1. Notification through e-mail or SNMP trap is supported by web browser-based GUI.

Management AP	
PathGuard Software	Multiple paths to each device End-to-end I/O path failover and failback Dynamic I/O load balancing
Environment Specification	
Humidity	20% to 80% non-condensing
Operating Temperature	5℃ to 40℃ 41℉ to 104℉
Non-operating Temperature	-25℃ to 60℃ -13℉ to 140℉
Safety Regulatory	UL, CUL, CB
EMC Standard	FCC, CE, C-Tick, BSMI
Dimension and Weight	
Physical Dimension	485(W) x 565(D) x 88(H) mm
Physical Weight (without drives)	19 Kgs
Packed Dimension	610(W) x 790(D) x 430(H) mm
Packed Weight (without drives)	28 Kgs

* Specifications and product offerings may vary without notice.
* Various trademarks belong to their respective owners.

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